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Jay M. Sanders, Patent Attorney

INFORMATION DISCLOSURE STATEMENT Examining Group 1639 Patent Application Docket No. UGR-100XD1 Serial No. 10/828,919 Confirmation No. 6165

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit

1639

Applicants

Michoel J. Adang, Laura M. Kasman

Serial No.

10/828,919

Conf. No.

6165

Filed

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For

April 20, 2004

Phage Display of a Biologically Active Bacillus thuringiensis Toxin

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§1.97 AND 1.98

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In accordance with 37 C.F.R. §1.97 and §1.98, Applicants would like to bring to the attention of the Examiner the references listed on the attached Form PTO/SB/08B.

Pursuant to 37 C.F.R. §1.98(d), copies of the references cited on the attached Form PTO/SB/08B are not provided herewith because copies of these references were submitted to the Patent Office in prior U.S. Patent Application Serial No. 09/629,596 (filed July 31, 2000). The subject application (Serial No. 10/828,919) claims the benefit under 35 U.S.C. §120 of the filing date of the patent application 09/629,596. Applicants respectfully request that the copies of references supplied in the Information Disclosure Statement of the 09/629,596 application, as well as, any references cited during the prosecution thereof, be made of record in the 10/828,919 application.

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Docket No. UGR-100XD1 Serial No. 10/828,919

It is respectfully requested that the references cited on the attached Form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statements. Though no fees are believed to be required for this paper, the Patent Office is hereby authorized to charge any fees required by this paper to Deposit Account No. 19-0065.

Respectfully submitted,

Jay M. Sanders
Patent Attorney

Registration No. 39,355

Phone No.: 352-375-8100 Fax No.: 352-372-5800 Address: P.O. Box 142950

Gainesville, FL 32614-2950

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Attachment: Form PTO/SB/08B

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Complete If Known Substitute for form 1440P/PTO **Application Number** 10/828,919 INFORMATION DISCLOSURE Filing Date April 4, 2004 STATEMENT BY APPLICANT First Named Inventor Michael J. Adang **Group Art Unit** 1639 (use as many sheets as necessary) Sue Xu Liu **Examiner Name** Sheet of **Attorney Docket Number UGR-100XD1**

	}	NON PAYENT LITERATURE DOCUMENTS	
Framiner Initials*	Cito No. '	Include name of the author (in CAPIFAL LETTERS), title of the article, (when appropriate), title of the liten (book, magazino, journal, serial, symposium, calalog, etc.), date, paga(s), volume-issue number(a), publisher, city and/or country where published.	7
B. alathayin ka geograpi sa	<u>R1</u>	EARTEL, D., and Szoslak, J., "Isolation of new ribozymes from a large pool of random sequences," Science (1993) pp:1411-1418, Vol. 261	
	R2	BENJAMIN, Howard, Praecia Pharmaceuticals, Inc., Cambridge, MA; (unpublished)	
	R3	BOSCH, D., B. Schipper, Fl. Van Ocr Kleij, R.A. De Maagd, and W.J. Steikema, "Recombinent Bacillus thuringionsia crystal proteins with new properties Possibilities for resistance management," Biotechnology (1994) pp.915-918, Vol. 12	
	R4	BULLOCK of al., "XL1-Blue: A high efficiency plasmid transforming recA Escherichia culi strain with Beta-Galaciosidasa selection," BioTechniques, (1987) pp 376-379; Vol 5 (4)	
^	_R5	CADWELL, R., and Joyce, G.F., "Randomization of genes by PCR mutagenesis," I*CR Methods Appl. (1992) pp:28-53, Vol. 2	
	. R6	CADWELL, R., and Joyce, G. (1994) *Mulagenic PCR," PCR Methods/Appl. (1994) pp:S136-S140, Vol. 32	
4 to 1000 to 100 to 100 to 100 to 100 to	[87]	CHEN, X.J., M.K. Lou, and D.H. Dean (1993) "Site-directed mutations in a highly conserved region of Bacillus Thuringionsis d-endotoxin affect inhibitions of short circuit current across Bombyx mort midguls.," Proc. Natl. Acad. Sci. USA (1993) pp:9041-9045, Vol. 90	
	Ra	CREA of al., "Chamical synthesis of genes for human insulin," Proc.Nat'l Acad. Sci. (1978), pp 5785-5769, Vol. 75	
	119	CRICKMORE, N., D.R. Zelgler, J. Feitelson, E. Schnepf, J. Van Rie, D. Lercelus, J. Baum, and D.H. Dean "Revision of the nomenclature of the Bacillus thuringionsis posticidal crystal proteins," Microbiology and Molecular Biology Reviews, (1998) pp:807-813, Vol. 62	-
	R10	DEAN, D. H., F. Rajamohan, M. K. Lee, S. J. Wu, X. J. Chon, E. Alcantara, and S. R. Hussain. "Probing the mechanism of action of Baokus thuringkensis insecticidal proteins by site-directed mutagenosis - A minireview," Gэнь (1990) pn:111-117, Vol. 179	
montohonba modellike i de s	R11	Do MAAGO, R. A., H. van der Kleij, P. Bakker, W.J. Stiekema, and D. Bosch, "Different domains of Bocillus Industrials discontinuous can blind to insect midgut membrane proteins on ligand blots," App. Environ. Microbiol. (1996) pp:2753-2757, Vol. 62	T
	RI2	ENGLISH, L. and Roadily, T.L., "Delia endotoxin inhibits a phosphatase in midgut epithelial membranes of Heliothis virosecins," Insect Blochem. (1989) pp:145-152, Vol. 19	

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Complete if Known Standards for large 1419B3210 Application Number 10/828,919 INFORMATION DISCLOSURE Filing Date April 4, 2004 STATEMENT BY APPLICANT First Named Inventor Michael J. Adang Group Art Unit 1639 (use as many chects as necessary) **Examiner Name** Sue Xu Liu Shoet of **Attorney Docket Number** UGR-100XD1

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cita No. 1	Include name of the author (in CAPITAL LETTERS), tille of the article, (when appropriate), tille of the litem (book, inngezine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T²
	RIB	ESTRUCH J.J. Carozzi N.B., Desai N., Duck N.B., Warren G.W., Koziel M.G., "Transgenic plants An emerging approach to post control," Nature Biotechnology, (1997) pp.137-141, Vol. 15	
	T(14	f FIRELSON, J.S., J. Payno, and L. Kim, "Bacillus thuringlensis insects and beyond," Biotechnology (1992) pp:271-275, Vol. 10	
i diw tu þálladdan na ngja pro-	R15	GARCZYNSKI, S.F., Crim, J.W., and Adang, M.J., "Identification of putative insect brush border membrane-binding molecules specific to Bacillus thuringiensis d-endotoxin by protein blot analysis," Appl. Environ. Microbiol. (1991) pp. 2816-2820, Vol. 57	
		GC, A.Z. et al., "Localish of the Bombyx mort specificly domain on a Bacillus thuringionsis Delta endotoxin protein," Proc. Natl. Acad. Sci USA (1989) pp:4037-4041, Vol. 86	
	1817	GROCHULSKI, P., L. Masson, S. Borisova, M. Pusztal-Carey, JL. Schwartz, R. Brousseau, and M. Cygler "Bacilles thunoglensis Cry1A(s) insocticidal toxin crystal structure and channel formation," J. Mol. Biol. (1995) pp:447-454, Vol. 254	
	<u>R18</u>	HOFMANN, C., H. Vanderbruggen, H. Hofte, J. Van Rie, S. Jansens, and H. Van Mellsert, "Specificity of Dacillus thuringlonsis d-endotoxins is correlated with the presence of high affinity binding sites in the brush border membrane of target insect midguts," Proc. Natl. Acad. Sci. USA (1988) pp:7844-7848, Vol. 85	-
	1310	FIOF FE, It., S. Buystens, M. Vacck, and J. Leemans, "Fusion proteins with both insecticidal and neomycin phosphotransforase II activity," FEDS Lett. (1988) pp:364-370, Vol. 226	
was to a be wise or the second approx, y	R20	HOGREFE, H.H., J.R. Amberg, B.N. Hay, J.A. Sorge, and B. Shopes, "Cloning in a bacteriophage lambda vector for the display of binding proteins on filamentous phage," Gene (1993) pp:85-91, Vol. 137	
	R21	HURLER, W. and Gregnwood, F., *Preparation of jodine-131 labeled human growth hormone of high specific activity," Nature (1962) pp:495 496, Vol. 194	
OTT LORIS	H22	KASMAN, Laura M., Lukowiak, Andrew A., Garczynski, Stephen F., McNall, Rebecca J., Youngman, Phil, and Adang, Michael, "Phago Display of a Biologically Active Bacillus thuringlensis Toxin", Applied and Environmental Microhiology, (1908) pp:2895-3003, Vol 64, No. 8	
AV7	R23	KEOHAVONG, P., and Thilly, W.G., "Fidelity of DNA polymerases in DNA amplification," Proc. Natl. Acad. Sci. U.S.A. (1939) pp:9253-9257, Vol. 86	
	R24	KNIGIT, P.J., N. Crickmore, and D.J. Eller, "The receptor for Bacillus thuringiensis Cry1A(c) delta-endotoxin in the brush horder membrane of the lepidoptoran Manduca sexta is aminopeptidase N," Molec. Microbiol. (1994) ep:429 438, Vol. 11	-

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Examiner Initials*	Cile No. 1	include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the ifon (trook, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	7'2
147A01, MD418, 1844, 4	R25	KNOWLES, 6.H and J.A.T. Dow, "The crystal delta-endotoxins of Bacillus thuringlensis - models for their machanism of action on the insect gut," Bloassays (1993) pp:469-476, Vol. 15	
	FR 7 G	LAMBERT, B. and Pofercien, M., "Insecticidal promise of Bacillus thuringiensis," Biosciance (1992) pp:112-122, Vol. 42	
	RŻY	LFE, M.K., F. Rajamohan, F. Gould, and D.H. Doan, "Resistance to Bacillus thuringiensis Cry1A d-endotoxins in a laboratory-actical Hellothis virescens strain is related to receptor alteration," Appl. Environ. Microbiol. (1895) pp:3/i36-3842, Vol. 61	
	<u> Fc28</u>	L.C.E., M.K., B.A. Young and D.H. Dean, "Domain til exchanges of Racillus thuringlensis. Cry1A toxins affect binding to different gypsy moth midgut receptors." Biochem. Biophys. Res. Comm. (1995) pp:306-312, Vol. 216	
	Ft29	U., J., Carroll, J., and Ellar, D.J., "Crystal structure of Insecticidal d-endotoxin from Bacillus thuringiensis at 2.5 A rosolution," Nature (1991) pp:815-821, Vol. 353	
	R30	MASSON, L., YJ. I.u, A. Mrizzo, R. Brosseau, and M.J. Adang, "The Cry1A(c) receptor purified from Manduco sexts displays multiple specificities," J. Biol. Chem. (1995) pp:20309-20315, Vol. 270	
t dan da anni i i anni a	R31	MARZARI, R., P. Edorni, R.K. Bhatjagar, S. Ahmad, A. Selvapandiyan, and A. Bradbury, "Phage display of Hacillus (furringionsis: Cry†A(a) toxin," FEBS Letters (1997) pp:27-31 Vol. 411	
harderin shippings our ma	R32	MISSING et al., "A system for shotgun DNA sequencing," Nucleic Acids Res., (1981) pp:309-321, Vol. 9	
	R33	PARMLEY, S.F. and Smith, G.P., *Antibody-selectable filamentons phage vectors affinity purification of target genes,* Gene (1988) pp-305-318, Vol. 73	
	[334	IRJAMOHAN, F., J.A. Cotrill, F. Gould, and D.H. Dean, "Role of dontain II, loop 2 residues of Bacillus thuring-ensis Cry1Ab d-endotoxin in reversable and irreversable blinding to Manduca sextal and Heliothis vircecons," J. Biol. Chem. (1996) pp:2390-2396, Vol. 271	-
	R35	SAIKI, R.K., Gelfand, D.H., Stoffel, S., Scharf, S.J., Higuchi, R., Horn, G.T., Mullic, K.B., and Erilch, H.A., "Primer-directed ensymmatic complification of DNA with a thermostable DNA polymorase," Science (1988) pp:487-491, Vol. 239	†
	RBB	SANGADALA, S., F.S. Walters, L. H. English, and M.J. Adang, "A mixture of Manduca sexta aminopeptidase and phosphalase enhances Bacillus thuringiensis Insecticidal Cry1A(c) toxin binding and B6Rb\K+ efflux in vitro," J. Biol. Chem. (1994) pp:10088-10092, Vol. 269, No. 13	

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	F(37	SCHWARTZ, JL., Y.J. Lu, P. Srohnlein, R. Brousseau, L. Masson, R. Laprade, and M. J. Adang, "Ion channels formed in planar lipid bilayers by Bacillus thuringiensis toxins in the presence of Manduca sexta midgut ranceptors," FEBS left, (1997) pp.270-276, Vol. 412	
	R38_	SCOTT, J. K. and Smith, G. P., "Searching for peptide ligands with an epitope library," Science (1990) pp:386-390, Vol. 249	
	£9a	SMITH, G.P., "Filamentous phago assembly. Morphogenetically defective mutants that do not kill the host," Virology (1980) pp:156-165, Vol. 167	
	R40	SMITH, G.P. and D. J. Effor, "Mutagenesis of two surface exposed loops of the Bacillus thuringionsis. Cry1C dendetexin affects insecticidal specificity," Biochem. J. (1994) pp:611-616, Vol. 302	ļ
	R41	STEMMER, W.F.C , "Rapid evolution of a protein in vitro by DNA shuffling," Nature (London) (1994a) pp:389-391, Vol. 370	
	R42	STEMMER, W.P.C., "DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution," Proc. Natl. Acad. Sci. U.S.A. (1994b) pp:10747-10751, Vol. 91	
	R43	STEWART, C.N., M.J. Adang, J.N. All, H.R. Boerma, G. Cardineau, D. Tucker, and W.A. Parroll, "Genetic transformation, recovery, and characterization of fertile soybean transgenic for a synthetic Bacillus thuringiencis cry1Ac gone," Plant Physiol. (1996) pp:121-129, Vol. 112	
	1344	TABASINNIK, B.E., T. Malvat, YB. Llu, N. Finson, D. Boethakur, B.S. Shin, SH. Park, L. Masson, R. DeMaagd, and D. Bosch, "Cross-resistance of diamondback moth implies altered interactions with Domain II of Bacillus thuringiensis toxins," Appl. Environ. Microbiol. (1996) pp;2839-2844, Vol. 62	
o se sees or the beauty france or	[เนธ	VAN RIU, J., S. Jankens, H. Hofte, D. Degheele, and H. Van Melleart, "Receptors on the brush border membrane of the Insect midgut as determinants of the specificity of B. thuringiensis delta-endotoxins," Appl. Environ. Microbiol. (1990) pp:1378-1385, Vol. 56	
-147	R48	WABIKO, H. and Yasuda, E., "Bacillus thuringlensis protoxin location of toxic border and requirement of non-toxic domain for high tevel in vivo production of active toxin," Microbiology (1995) pp:629-639, Vol. 141	
APP (47%) (47%)	[147]	WOLL'I. REBERGER, M.G., X.J. Chen, and D.H. Dean, "Site directed mutations on the third domain of Bacillus thuringicals it endotes in Cry1Aa affect its ability to increase the permeability of Bombyx mori midgut brush boader membrand vesiches," Appl. Environ. Microbiol. (1996) pp:279-282, Vol. 62	-
	1749	WOLFERSHERGER, M.G., Lvihy, P., Maurer, A., Parenti, P., Sacchi, V.F., Glordana, B., and Hanozel, G.M., "Preparation and partial characterization of amino acid transporting brush border membrane vesicles from the larval midgut of the cabbage butterfly (Pieris brassicae)." Comp. Biochem. Physiol. (1987) pp:301-308, Vol. 86A	

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